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Routine Infection Control Surveillance in Long Term Care

The primary purpose of **infection control surveillance** is the collection of **information for action**.¹ It is more than just evaluation of laboratory reports, including cultures. Infection control includes routine surveillance of residents, surveillance of staff, and surveillance of the environment. This may be accomplished using the following guidelines.

Epidemiologic Aspects

- 1. According to the Missouri Division of Aging rules, all long term care facilities must have infection control policies which are made evident to all new employees at time of orientation.² [13 CSR 15-14.042(20) and 13 CSR 15-15.042(18) See Appendix C.] The Occupational Safety and Health Administration (OSHA) mandates policies on surveillance and recordkeeping of exposures to blood and body fluids included under Universal Precautions (see other potentially infectious materials) and infections from bloodborne pathogens.³ In addition, infection control experts recommend that long term care facilities (LTCF's) have active, effective infection control programs which include weekly surveillance for nosocomial infections and multiply resistant organisms.^{1,4} (See "Glossary of Infection Control Terms and Definitions," Appendix B.) Besides identification of such infections, a line listing should be kept which includes pertinent information regarding residents with infections (Figure 2.1-1).
- 2. A facility's surveillance policies and procedures should be reviewed and updated on a yearly basis to assure appropriateness and effectiveness in reducing specific body site infections or number of infections with specific organisms.
- 3. A facility's surveillance system must include the reporting of infectious diseases as required by the Missouri Department of Health. (See "Reporting Rule, Appendix I. See Figure 2.1-2 for a sample reporting form.)
- 4. A facility's surveillance system should include monitoring for appropriate antibiotic use. A positive culture in a person without clinical symptoms rarely requires treatment with antibiotics. (See Figure 2.1-3 for a sample monitoring form.)
- 5. Long term care facilities should request by contract or policy that their laboratory notify the Director of Nursing (DON) or his/her designee of all positive cultures with a multiply resistant organism or laboratory data indicative of a reportable disease. This will permit the facility to track the residents with certain organisms. Tracking a multiply resistant organism or reportable disease includes keeping records of dates when the resident changes rooms or roommates and also monitoring resident activities or exposures to others.

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- 6. It is important to track and follow trends of infection data related to both residents and staff on a monthly basis. This information should then be presented to the appropriate committee on at least a quarterly basis. Rates should be calculated by using resident days or average daily census for the surveillance period (such as a month, quarter or year) as the denominator. Examples of tools used in data calculation and presentation are included in Figures 2.1-4, 2.1-5 and 2.1-6.
- 7. Outbreak investigation should be performed as outlined in Section 7. Infectious Disease Outbreaks.

Resident Aspects

- 1. Assessment of all residents for any/all changes in symptoms or conditions which may be indicative of an infection should be performed on an ongoing basis; i.e., clinical observation, house reports, chart and/or Kardex review, culture reports. Any change in the resident's condition is to be reported to the private physician.
- 2. Indications of infection in the elderly may vary from those seen in a younger more healthy population.⁵ Elderly persons often have a lower body temperature, so an increase in temperature from that which is normal for the resident may be an indication of infection. Other conditions that may indicate an infection in the elderly are:
 - a. Presence of delirium (acute confusional state)
 - b. Rapid major change (worsening) in function in activities of daily living (ADL's)
 - c. Loss of appetite, new or worsening urinary incontinence, cough, increased respiratory rate, falls, or loose stools
 - d. A decline in blood pressure or a rise in pulse rate
 - e. A fall with no previous history of falling
- 3. Routine culturing of any resident or group of residents should not be performed unless one of the following occurs:
 - a. Resident has clinical signs or symptoms. A culture done under these circumstances will be useful in treating the resident.⁶
 - b. In an outbreak situation, as outlined in Section 7. Infectious Disease Outbreaks.
- 4. Routine culturing of **asymptomatic** residents at admission or prior to admission is not recommended. Residents who may be either colonized or infected with a disease producing organism(s) can generally be cared for in the long term care setting by using appropriate infection control practices. Request of culture results from the transferring facility is appropriate upon transfer to assist the receiving facility in understanding clinical history and assure appropriate resident room placement.
- 5. Assessment of the resident at the time of admission to the facility for communicable diseases and a history of immunization. This will assure recognition of communicable

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diseases that will require special precautions and assure the resident is up-to-date on recommended adult immunizations. (See Section 5. Immunizations.)

6. In accordance with Department of Health rule 19 CSR 20-20.100 (See Appendix E), all residents new to long term care who do not have documentation of a previous skin test reaction ≥10mm or a history of adequate treatment of tuberculosis infection or disease, should have the initial test of a Mantoux PPD two-step test to rule out tuberculosis within one month prior to or one week after admission. Thereafter, the resident's tuberculin status is retested only following exposure to a person diagnosed with infectious tuberculosis or when clinical symptoms warrant further investigation.

Employee Aspects

- 1. All new employees should have a baseline health assessment, including a review of their immunization status and history of relevant past or present infectious diseases. The past history of infectious diseases should include chickenpox, measles, hepatitis, skin boils and bacterial diarrhea. Use of screening cultures is rarely indicated.
- 2. All new employees and volunteers shall have a two-step tuberculin skin test using the Mantoux method unless the employee reports a history of a positive tuberculin skin test. Annual tuberculosis evaluations of employees and volunteers shall be performed. Individuals with a positive tuberculin skin test should be evaluated in accordance with Guidelines for Screening for Tuberculosis in Long Term Care Facilities issued in 1995 by the Missouri Department of Health, Section of Vaccine Preventable and Tuberculosis Disease Elimination. (See Section 9. Tuberculosis Control.)

Note: A tine test is not an acceptable method of evaluation for tuberculosis in Missouri.

- 3. Follow-up of an exposure to an infectious disease or substance shall be provided in accordance with current public health guidelines and the OSHA Bloodborne Pathogen Standard of 1991.
- 4. Each facility should have policies for the ongoing monitoring of employees for infections. Such monitoring should include observation and self-reporting. (See Employee Health in Subsection 3.2 Implementing the Body Substance Precautions System.)

Environmental Surveillance

Walking rounds to observe environmental conditions should be done on a regular basis or at least twice monthly. Observations should be made of equipment decontamination, cleaning procedures in bathroom/tub areas, physical therapy, medication/treatment rooms, kitchen and laundry areas. Observations should be made for handwashing, availability of soaps and paper

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towels, handling of sharps/infectious waste, care of resident supplies for skin care, catheter care, feeding solutions, etc. A clipboard with defined criteria can be used to check areas where changes need to be made or training needs to be done. (See Figures 2.1-7 and 2.1-8 for sample forms for recording environmental observations.)

References:

- 1. Smith PW. Consensus conference on nosocomial infections in long-term care facilities. Am J Infect Control 1987;15:97-100.
- 2. Division of Aging, Missouri Department of Social Services. 13 CSR 15-14.042 Administration and Resident Care Requirements for New and Existing Intermediate Care and Skilled Nursing Facilities and 13 CSR 15-15.042 Administrative, Personnel and Resident Care Requirements for New and Existing Residential Care Facilities I and II. Code of State Regulations, September 30, 1998.
- 3. Occupational Safety and Health Administration (OSHA). Department of Labor. Occupational exposure to bloodborne pathogens; Final rule. 29 CFR Part 1910.1030. Federal Register, December 6, 1991.
- 4. Boyce JM. Methicillin-resistant Staphylococcus aureus: Detection, epidemiology, and control measures. Infectious Disease Clinics of North America 1989;3:901-913.
- 5. Morris JN, Lipsitz LA, Murphy K, Belleville-Taylor P. Quality Care In the Nursing Home. CV Mosby 1997.
- 6. Kauffman CA, Bradley SF, Terpenning MS. Methicillin-resistant Staphylococcus aureus in long-term care facilities. Infect Control Hosp Epidemiol 1992;11:600-603.
- 7. Smith PW, Rusnak PG. APIC guideline for infection prevention and control in long-term care facilities. Am J Infect Control 1991;19:198-215.

INFECTION CONTROL LINE LISTING

UNIT	MONTH

ID#	DECIDENCE NAME	ACE	CEV	SEX	ROOM		CEV ROOM		CEY ROOM		SEY ROOM		SEX ROOM				N SIT			DATE*/LAB	DATE/	PREDISPOSING	DATE/			RESOLVEI	
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* DATE OF SPECIMEN COLLECTION



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Antibiotic Usage Report

Unit/ Hall	Month:	Year:

Room #	Resident	Antibiotic	Dose	Start/ Stop dates	Date of culture	Is organism sensitive to antibiotic? ***	Clinical signs of infection present*?	Infection resolved?	Physician	Comments

^{*} See back

^{***} Chart review of residents in line listing that remained on antibiotic when criteria for infection not met OR culture results evidence antibiotic prescribed not effective against organism.

Upper Respiratory Infection

- Common Cold—Resident must have 2 or more of the following sypmptoms: runny nose or sneezing, stuffy nose (i.e., nasal congestion), sore throat or hoarseness or difficulty swallowing, dry cough, swollen or tender glands of the neck (i.e., cervical lymphadenopathy). Symptoms must be acute and not related to allergy (seasonal) or medication. Fever is not required but does not exclude diagnosis.
- Ear—Diagnosis by a physician of any ear infection or any new drainage from one or both ears.
- Mouth—Diagnosis by physician or dentist of any mouth infection.
- Sinusitis—Diagnosis by physician.
- Influenza-like Illness—Fever and TWO or more of the following: chills, headache or eye pain, myalgias (muscle aching), malaise or loss of appetite, sore throat, dry cough. Symptoms must be acute, usually during flu season (in Missouri, November through March). When this definition is met it takes precedence over others.

Lower Respiratory Infection

- **Pneumonia**—Interpretation by a radiologist of a chest x-ray as demonstrating pneumonia, probable pneumonia, or presence of an infiltrate with a compatible clinical syndrome.
- Other Lower Respiratory—THREE or more of the following: new or increased cough, new or increased sputum production, fever, pleuritic chest pain, new physical finding on chest exam (i.e., rales, rhonchi, wheezes, bronchial breathing) and one or more of: new shortness of breath, increased respiratory rate >25/per minute, change in mental status, or change in functional status. Symptoms must be acute, either no chest x-ray is done or x-ray does not meet the above criteria for pneumonia.

Urinary Tract Infection

- Without Catheter—THREE or more of the following: fever or chills, new burning pain on urination or frequency or urgency, flank or suprapubic pain or tenderness, change in character of urine (visual, or by smell, or by lab testing), change in mental or functional status, including new or worse incontinence. Symptoms must be acute, urine culture must be appropriately collected and processed, and the resident should not be receiving antibiotics at the time the urine culture is taken.
- With Catheter—TWO or more of the following: fever or chills, suprapubic pain or tenderness, change in mental or functional status. In the catheterized resident, no other source for the fever should be suspected or identified. Asymtomatic bacteriuria may be recorded separately.

SKIN

Pus is present at a wound, skin or soft tissue site or FOUR or more of the following: fever or worsening mental/functional status (and/or, at the site of infection, new or increasing: heat, redness, tenderness, swelling, or serous drainage). Fungal infection—maculopapular rash (abnormally colored, usually red, flat or slightly raised areas of skin in varying sizes) and physician diagnosis or laboratory confirmation. Herpes simplex (cold sores) or Varicella Zoster (herpes zoster/shingles) vesicular rash (blister like, skin lesions containing watery fluid) and physician diagnosis or laboratory confirmation. The latter are counted as nosocomial in only rare situations, (i.e., where herpes simplex occurs for the first time in a lifetime). Varicella zoster is not considered nosocomial even when subsequent to a first time chickenpox in a long term care resident.

Formula (example) for identifying over prescribing.	
# residents on antibiotics minus # residents with infections (meet above criteria) equals _	
Residents not meeting criteria for infection minus residents taken off antibiotics equals_	

An Example

Incidence Rate and Number () of Body Site Infections per Resident Days by Unit **ANY Long Term Care Facility** Month, Year

Wing, Ward		Eye/Ear/	Wound/		Urinary	Bloodstream/	
or Floor	Respiratory	Mouth	Skin	Gastrointestinal	Tract	IV's	Total
Residential	- average daily o	census - 20					
Current	8.06* (5/620)	3.2 (2/620)	1.6 (1/620)	0.0 (0/620)	0.0 (0/620)	0.0 (0/620)	12.9 (8/620)
Baseline [§]	1.6 (1/620)	0.0 (0/620)	0.0 (0/620)	0.0 (0/620)	0.0 (0/620)	0.0 (0/620)	1.6 (1/620)
Floor 1 - Ea	st Wing average	e daily census	- 40				
Current	12.9 (16/1240)	3.2 (4/1240)	2.4 (3/1240)	0.8 (1/1240)	1.6 (2/1240)	0.8 (1/1240)	8.9 (11/1240)
Baseline	1.6 (2/1240)	0.8 (1/1240)	1.6 (2/1240)	0.8 (1/1240)	1.6 (2/1240)	0.4 (.5/1240)	6.9 (8.5/1240)
Floor 1 - Wo	est Wing averag	ge daily census	- 28				
Current	12.7 (11/868)	3.5 (3/868)	5.8 (5/868)	2.3 (2/868)	4.6 (4/868)	2.3 (2/868)	32.3 (28/868)
Baseline	2.5 (3/1209)	0.76 (.6/868)	3.5 (3/868)	2.3 (2/868)	3.5 (3/868)	0.9 (.8/868)	14.3 (12.4/868)

*Incidence rate = # of new nosocomial infections occurring in one month x 1000 number of resident days in the month 5 new respiratory infections 20 (average daily census per unit) x 31 (days in month) $\frac{5}{20 \times 31} = \frac{5}{620} \times 1000 = 8.06$ respiratory infection per 1000 resident days

Z

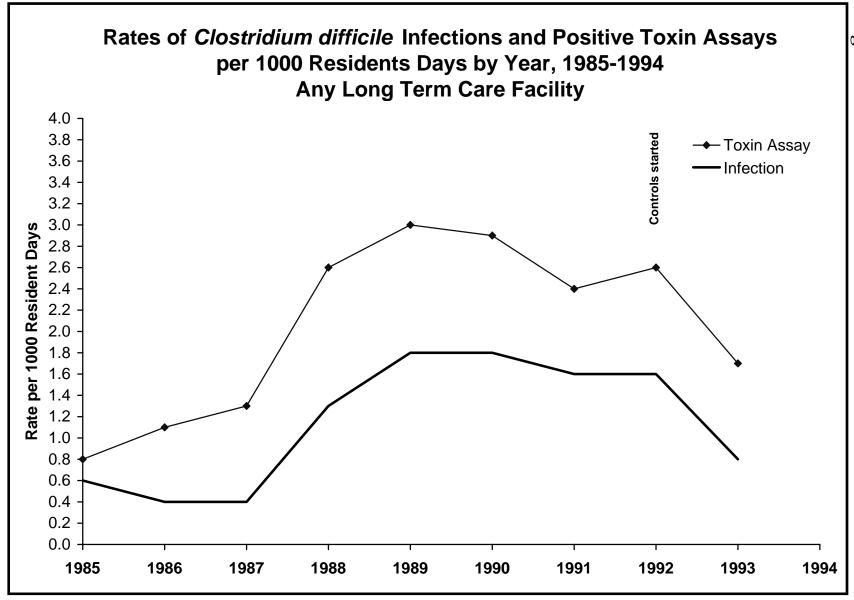
Add the number of resident days for each month in one year _ average monthly Add the number of new infections for each month in one year _ average monthly Divide by 12 Divide by 12 resident days infections

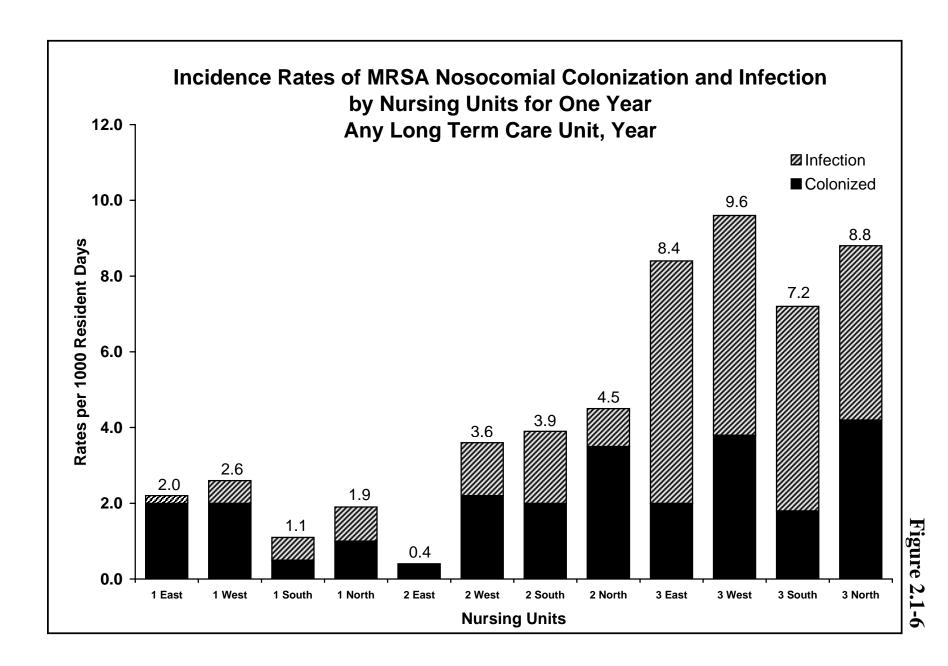
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Average monthly infections x 1000 = Baseline rate

Average resident days

[§]Baseline infection rate = the average rate of infections per body site in past 1-5 years.





Environmental Rounds Surveillance Form

Date	Unit/Wing/Area Inspected	Reviewer Name

Area/Item				
Inspected	Satisfactory	Unsatisfactory	Comments	Action Required
Patient Care				
Equipment Clean:				
I.V. poles				
Overhead table				
Telephone				
Side rails				
Other				
Floors Clean				
Floors free of debris				
Bathroom clean:				
Toilet seat				
Sink and faucet				
handle(s)				
Towels				

Area/Item				
Inspected	Satisfactory	Unsatisfactory	Comments	Action Required
Use of PPE:				
Gloves				
Gowns				
Masks				
Eye Goggles/Shields				
Door Closed When				
Stop Alert Sign				
Present				
Handwashing:				
Between patients				
After glove removal				
After using bathroom				
Soap & Paper				
Towels Present				
Sharps/Needle				
Disposal				
Disposal of Waste				
Management/				
Handling of Patient				
Care Supplies				

Area/Item Inspected	Satisfactory	Unsatisfactory	Comments	Action Required
Other				

Maintaining Infection Control Practices A Checklist for Housekeeping Practices

ltem	Y	es	N	0	N.	Α	Comments
Does the facility have an outside commercial source that cleans?	[]	[]	[]	
Is the resident area cluttered to a point that it interferes with staff function?]]	[]	[]	
Are bed linen clean and in good condition?	[]	[]	[]	
Are there individual closet spaces with accessible shelves and are they clean?]]	[]	[]	
Are the resident bathrooms clean and sanitary?	[]	[]	[]	
Are the sinks cleaned?	[]	[]	[]	
Are there soap dispensers present for staff use in each resident's room?	[]	[]	[]	
Are those soap dispensers adequately filled and in working order?	[]	[]	[]	
Are there paper towel dispensers present for staff use in each resident's room?	[]	[]	[]	
Are those paper towel dispensers adequately filled?	[]	[]	[]	
Are the shower areas clean and sanitary?	[]	[]	[]	
Are the hallways cluttered?	[]	[]	[]	
Are the walls clean and/or spot checked daily?	[]	[]	[]	
Is resident trash removed daily?	[]	[]	[]	
Is there visible infectious waste stored in the resident's room?]]	[]	[]	

Item	Ye	es	N	0	N	Α	Comments
Are venetian blinds, curtains or drapes clean?	[]	[]	[]	
Are there body fluids on the floor?	[]	[]	[]	
Are there bed linens on the floors?	[]	[]	[]	
Are there written protocols for mopping floors?	[]	[]	[]	
How often is the detergent/disinfectant changed in the mop bucket?	[]	[]	[]	
Are clean mops used at the beginning of each work day?	[]	[]	[]	
Do housekeepers know how to pick up needles or sharps from the floor?	[]	[]	[]	
Do housekeepers know the procedure of what to do if they are stuck with a needle or cut with a sharp?]]]]	[]	
Do housekeepers know the procedure for decontamination of blood on floors or carpets?	[]	[]	[]	
Have the housekeepers been offered the hepatitis B vaccine?	[]	[]	[]	
What is the percentage of compliance for the hepatitis B vaccine among the housekeeping		aff?				%	
Are the material safety data sheets (MSDS) available?	[]]]	[]	
Do housekeepers use goggles or face shields when preparing chemicals?	[]	[]	[]	
Is there an eye wash station near area (within 100 feet) where chemicals are prepared?	[]]]	[]	

ltem	Y	es	N	0	N	A	Comments
Are there visible pests present?	[]	[]	[]	
Name of pest control company:							
Are there appropriate screens for doors?	[]	[]	[]	
Are there appropriate screens for windows?	[]	[]	[]	
Is there a written infection control procedure manual for housekeeping?]]	[]	[]	
Has this procedure manual been updated in the past 12 months?	[]	[]	[]	
Did the infection control person have any input in developing this procedure manual?	[]	[]	[]	
Type of chemical (formulation) used for ger EPA#:			eani	ng:			
Type of gloves used by housekeepers:							
How are mops cleaned:							
How are mops dried:							
List the in-service educational seminars that title and dates:	ho	ouse]	keep	ers	hav	e at	tended in the past year with
Title							Dates
Name of infectious waste transporter:							
Name of director of housekeeping:							
How long at this position?							
Formal training? Yes If yes, where:							
11 yes, where.				-			

Immediate Recommendations:	
Infection Control/Quality Assurance Recommendations:	
Other Factors:	
Person performing audit:	Date:
Signature of housekeeper:	
	Date:
Signature of infection control practitioner:	
	Date:

Form provided courtesy of St. Joseph Health Center, Kansas City, MO.

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Subsection 2.2 Definitions of Body Site Infections	Issued 7/1/99

Definitions of Body Site Infections in Long Term Care Facilities

Site/Infection	Criteria	Comments
Respiratory Tract		
Common Cold	Two or more of the following: • Runny nose or sneezing	Symptoms must be acute and not allergy related.
	 Stuffy nose, hoarseness or difficulty swallowing Dry cough New swollen or tender glands in the neck 	Fever not required, but does not exclude diagnosis.
Sinusitis	Diagnosis by a physician or practitioner.	
Influenza-Like Illness	Fever and two or more of the following: Chills Headache or eye pain Myalgias (muscle aches) Sore Throat Dry Cough	Symptoms must be acute. Usually during influenza season (in Missouri—generally November to March).
Pneumonia	Interpretation by a radiologist of a chest x-ray as demonstrating pneumonia, probable pneumonia, or the presence of an infiltrate with a compatible clinical syndrome.	
Other Lower Respiratory Tract Infection	 Three or more of the following: New or increased cough New or increased sputum production Fever Pleuritic chest pain New physical findings on chest exam (rales, rhonchi, wheezes, bronchial breathing) One or more of the following: New shortness of breath Increased respiratory rate (>25/mm) Change in mental status Change in functional status 	Symptoms must be acute. Either no chest x-ray done, or x-ray does not meet the above criteria for pneumonia.

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Definitions of Body Site Infections in Long Term Care Facilities (continued)

Site/Infection	Criteria	Comments
Urinary Tract Symptomatic UTI	Resident without catheter three or more of the following: • Fever or chills • New burning pain on urinating, or frequency or urgency • Flank or suprapubic pain or tenderness • Change in character of urine (visual, or by smell, or by lab testing) • Change in mental or functional status, including new or worse incontinence	Symptoms must be acute.
	Resident with catheter two or more of the following: • Fever or chills • Flank or suprapubic pain or tenderness • Change in character of urine • Change in mental or functional status	For the catheterized resident, no other source of fever is present.
Asymptomatic Bacteriuria	Urinalysis showing >100,000 bacterial colonies and resident has no signs or symptoms of UTI	May be recorded separately
GI Tract Gastroenteritis	Two or more loose or watery stools above what is normal for the resident within 24 hour period OR Two or more episodes of vomiting within a 24 hour period OR Stool culture positive for a pathogen (Salmonella, Shigella, Campylobacter species or Clostridium difficile) WITH A compatible clinical syndrome—one of the following: Nausea Vomiting Abdominal pain/tenderness Diarrhea	For the first two criteria, there must be no evidence of a non-infectious cause (e.g. for diarrhea: laxative, change in tube feeds or medication; for vomiting: change in medication, peptic ulcer disease)

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Subsection 2.2 Definitions of Body Site Infections	Issued 7/1/99

Definitions of Body Site Infections in Long Term Care Facilities (continued)

Site/Infection	Criteria	Comments
Skin Cellulitis/ Soft Tissue/ Wound	Pus is present at a wound, skin or soft issue site OR Four or more of the following: • Fever or worsening mental/ functional status (and/or, at the site of infection, new or increasing) • Heat • Redness • Swelling • Tenderness • Serous drainage	
Fungal Skin Infection	Maculopapular rash (abnormally colored, usually red, flat or slightly raised area of skin in varying sizes) AND Physician or practitioner diagnosis or laboratory confirmation	 No evidence of a non-infectious cause (e.g. allergy to new medication) Other diagnoses of skin disease ruled out (i.e. scabies)
Herpes Simplex (Cold Sores) or Varicella Zoster (Herpes Zoster/ Shingles)	Vesicular rash (blister like skin lesions containing watery fluid) AND Physician or practitioner diagnosis or laboratory confirmation	Counted as nosocomial in rare situations (i.e., when herpes simplex occurs for the first time in a lifetime). Varicella zoster is not considered nosocomial even when subsequent to a first time chickenpox in a long term care resident.
Scabies	Undiagnosed macular (flat) or papular (slightly raised) rash different in color or_texture OR Dry thickened, scaling skin with documented tracks OR Itching rash AND Physician or practitioner diagnosis or laboratory confirmation	 One or more residents or staff have laboratory confirmation (mite, egg or fecal pellet) Several cases occurring within the same time frame and setting can be counted within an outbreak without laboratory confirmation provided

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Definitions of Body Site Infections in Long Term Care Facilities (continued)

Site/Infection	Criteria	Comments
Eye, Ear, Nose and Mouth		
Conjunctivitis	Pus appearing from one or both eyes for >24 hours. "Pink eye" (i.e., conjunctival redness, often with itching or pain), present for >24 hours.	No evidence of trauma (e.g. foreign body) or allergy as a cause.
Ear	Diagnosis by a physician or practitioner of any ear infection OR Any new drainage from one or both ears.	
Mouth (Peri-Oral) Includes Oral Candidiasis	Diagnosis by a physician, practitioner or a dentist of any mouth infection.	
Bloodstream Bloodstream	Two or more blood cultures are documented with the same organism OR A single blood culture is documented with an organism thought not to be a contaminant AND One of the following: • Fever or new hypothermia • Drop in systolic blood pressure of >30mm Hg over baseline • Change in mental or functional	If the organism in the blood culture is <i>not</i> related to an infection at another site, it is considered a "Primary Bloodstream Infection". If the organism in blood culture is related to an infection at another site, it is considered a "Secondary Bloodstream Infection"
	status.	

References:

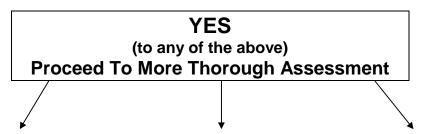
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Subsection 2.3 Frequent Indicators of Infection in the Elderly	Issued 7/1/99

FREQUENT INDICATORS OF INFECTION IN THE ELDERLY

- ⇒ The presence of delirium (acute confusional state)
- \Rightarrow A rise in body temperature of at least 2.4°F from the baseline, or a body temperature higher than 100°F
- ⇒ Rapid major change (worsening in functional activities of daily living)
- ⇒ Loss of appetite
- ⇒ A fall in blood pressure or a rise in pulse rate
- ⇒ A fall with no previous history of falling



Upper Respiratory Infection

- Runny nose or sneezing
- Nasal congestion
- Sore throat, hoarseness or difficulty swallowing
- Dry cough
- New swollen or tender glands in the neck

Urinary Tract Infection

- New burning on urination, frequency or urgency
- Flank or supra pubic tenderness
- Change in character of urine (cloudy, dark, foul-smelling)

Soft Tissue Infection

- Classify the ulcer based on extent of tissue involvement
- Note the presence of purulence, devitalized tissue and cellulitis
- Measure the size and depth of the lesion(s)

YES (to any of the above) Proceed To Action Plan and More Thorough Assessment

Upper Respiratory Infection

- Call physician (per facility protocol)
- Symptomatic relief (i.e., decongestant)
- Monitor hydration status
- Observe for worsening condition

Urinary Tract Infection

- Call the physician for appropriately collected urinalysis
- Monitor hydration status
- Observe for worsening condition

Soft Tissue Infection

- Call the physician for appropriate treatment
- Monitor hydration status
- Observe for worsening condition

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Subsection 2.4 Symptoms of Worsening Condition	Issued 7/1/99

SYMPTOMS OF WORSENING CONDITION

- ⇒ Unstable vital signs
- ⇒ Resident appears toxic, diaphoretic, more confused, dyspneic or cyanotic
- ⇒ Unable to eat or drink

YES

(to any of the above) Proceed To Action Plan and Continued Assessment

- ⇒ Call physician. (If unable to access the primary physician, call 911)
- ⇒ Report all factors of your assessment.

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Subsection 2.4 Symptoms of Worsening Condition	Issued 7/1/99